

TECHNOLOGY NEWS

"World's Greatest College Newspaper"

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VOL. 26—No. 11

Z143

ILLINOIS INSTITUTE OF TECHNOLOGY, CHICAGO, ILLINOIS

DECEMBER 17, 1940

Glee Club And Orchestra In Xmas Concert

Armour College officially acknowledges that the Christmas spirit is in the air Thursday morning, when, according to tradition, the combined musical clubs of the school will present their annual Christmas concert for the entertainment of the fellow students. The concert will start at 10:00 and, as in the past, will be conducted by the Institute's able and genial Music Director, Mr. Gordon O. Erickson. The fact that each year's concert is presented before an overflow crowd of engineers attests to the excellence of the musical club's venture.

The program will be shared equally by the orchestra and the Glee Club with the orchestra accompanying the entire audience in the singing of well-known Christmas carols. Featured as soloists will be violinist Gus Mustakas and trombonist Roy Hrubes. They will play, respectively, *Hymn to the Sun*, by Rimsky-Korsakov and the beloved *Rosary* by Ethelbert Nevin.

For its part, the Glee Club will be heard in the following:

The Lost Chord Sullivan
Music When Soft Voices Die

..... Matthews
When All Is Still Miles

Two spirited Russian numbers will also be heard: *The Sleigh* and *Cossack Love Song*.

The orchestra will present the following program:

Adoration Borowski
Hungarian Dance No. 5 Brahms

Southern Suite Nicodi

(Continued on page three)

Two Profs To Address AMS Annual Meeting

America's most eminent mathematicians will convene for the annual American Mathematical Society's convention from December 30, 1940, to January 1, 1941. Louisiana State university, Baton Rouge, Louisiana, will be the site for this important mathematical conclave.

Three competent men from Illinois Institute's mathematics department will attend the convention: Prof. Lester R. Ford, chairman of the department; Rr. I. E. Perlin and Prof. Rufus Oldenburger. The highlight of the convention will be the presentation of 44 original research papers on varied mathematical subjects.

Of special interest to students are the papers to be read by the members of the faculty. Dr. I. E. Perlin will present a paper devoted to the analysis of differential functions of several variables. Prof. Rufus Oldenburger will announce that the technique developed after years of research has been very successful in treating the classical problems of the algebra of polynomials. Dr. Oldenburger explained his "Minimal Number Problem" as "the problem of finding the minimum number of terms of a special type such that their sum is equal to a given polynomial. One application of this new approach yields probably the simplest method of finding the multiple roots of an algebraic equation.

BEST WISHES FROM "TECH" NEWS STAFF!



Sphinx To Sponsor 'It's A Small World,' Friday, January 17

The Yale Puppeteers—98 weeks in Hollywood! 54 weeks on Broadway! 2 world tours! This is only a part of the outstanding record achieved by these foremost marionette performers who will present "It's a Small World" for Illinois Institute on January 17. Remember the motion picture "I am Suzanne?" Then you know the Yale Puppeteers; listen to the radio? Then you've heard the Yale Puppeteers. But now you will see them in action in the Armour Auditorium for the first time at any Chicago college.

"It's a Small World" is a medley of caricatures in satire of world wide personages. Slightly under two hours in length, it is a program of puppets for adults—puppets that offer bright and amusing satire—puppets that offer tuneful music, topical lyrics.

This has been the slogan and the fulfillment of the claims made by the Yale Puppeteers.

In this, their twelfth season, The Yale Puppeteers introduce one of the most popular editions of their program. James A. Farley in a special number: "Take Me Out To the Ballgame, I Need a Little Change," Mrs. Whistler in a number dedicated to mothers bored and fed with too much "mother's day sweetening;" F.D.R. in a "Fireside Chat to the Fish in Chesapeake Bay;" Raymond Massey as Lincoln in a number titled "Springfield 1940;" the Lady Tourist as Mrs. Marco Polo in "My Day" and the Baby Panda from Brookfield Zoo—to mention a few of the features in this program.

The production also includes musical and pantomime numbers and, as usual—begins with the Haydn Trio—the company "trademark" and feature of the program from the company's beginning. There will be tunes you can whistle and satire to delight you and you'll all give praise that we still live in a land where "we can poke fun at whom we please"—so long as it is good fun and in the spirit of fair play.

(Continued on page eight)

Testing Shacks In Ogden Field House Gasoline

Those shacks you've seen out on Ogden field aren't out houses. They're not ticket booths either. Nor are they inhabited by stray hobos or "relievers." However, they are part of the equipment being used by the Research Foundation in their test of gasoline drums.

Plenty of Hot Petrol

The drums being tested are to be used to store 100 octane high test aviation gasoline at a U. S. base in the tropics, as a part of the defense program. The purpose of the test is to determine whether or not the gaskets used on the drum plug will leak due to the increased vapor pressure which in

(Continued on page eight)

KITTY KAUGHT BY KONDUCTORS KUTS KAPERS IN KLASS

Prof. Sear's night school class in Electrical Engineering had a new laboratory assistant last night. They didn't know it, however, until their attempts at reading five places on a voltmeter were interrupted by a faint "Meow."

Still busy, they would have disregarded it, except for its persistence. The calls kept increasing in volume, and finally were coming about once every second.

Cat Causes Confusion

Three of the students started locating it by soundings, and finally crept up on the shop corner of the lab. Quietly, they opened the door—and found a large grey tomcat tangled up among some heavy duty power cable in the corner. Before the fellows could move an inch it struggled out of the tangle—and made a frantic rush (net effect: about three beelines) for the door. If it didn't leave the building, some of you day school men may get an assistant lecturer on the subject of "meow."

Awards Presented Reporters At Tech News Dinner

A surprise award was the feature of the *Technology News* reporters' dinner last Thursday evening. Gathering in the Student Union building on the Armour campus, they were first fed with a meal of fruit punch *a la California*, potatoes *au gratin*, and broiled ham *au glace*. The good and faithful ones then had their desserts augmented by a pleasant "reporters' award"—a black ever-sharp pencil—for meritorious service. These, as well as press passes, were awarded by Editor Pete Woods.

Writers Honored

Receivers of the Scheaffer pencil awards were Ed Doran and Paul Leopold, two of the boys from the old Armour staff, and former Cub Reporters, Julian Bowers, Walter Eichenberger, Jeannette Mac Luckie, Joe Minga, and Gordon Walter. The awards were in recognition of their exceptional talent and faithfulness.

Staff Talks

Following this, the business-like group of reporters were exposed to an array of facts: first, from Jim Waber, who spoke of the work after the stories are turned in Friday night and about the happenings at the printers on Saturday.

Next came a midget pep talk by Associate Editor Lil Snodgrass and a dissertation on lead sentences by Assignment Editor Dan Brown. Managing Editor Joe Aberer then stressed the importance of reporters, after which Assignment Editor Tom Brown tracked possible errors down to their roots.

Editor Woods Speaks

Pete Woods then stressed the importance of being able to write, and he made a request for a few more Saturday assistants. The general opinion of all the editors seemed to be that of a pleased feeling toward the progress thus made the first semester of the paper, but that there are "miles to go before we sleep."

(Continued on page eight)

IT'S NOT TOO LATE TO GET A SWELL DATE

Friday Is The Day For Seniors To Sway

This Friday is your date, my date, everybody's date for the Senior Informal! From the almost complete sell-out of the patriotic, yet exotic bids it seems as though all of the departments, classes, and groups will be well represented at this gala wintry affair at the Drake.

Scheduled to start at 9 o'clock, the Informal will present two bands in the famed Grand Ballroom, which can be entered by private entrance on the Walton Street side of the hotel. Lou Breese and his "At the Meadowbrook" band plus Adrian Rollini-like Royal Troubadors will send out for four suave, swiny hours.

Some good bands have everything but running water—Lou Breese's even has that, 'cause it bubbles: it scintillates. Furthermore, it's good. Two Chicago high school lads—"Spik" Morr and Barry Warren—are featured vocalists with the 16 piece organization which includes the famed "Choir of Brass" of seven pieces of that musical metal.

Versatility is evidenced when the entire band puts its vocal chords together for the ever-popular Glee Club numbers. The novelty presentations will tickle your funny bone as the cunning use of counter-point and the rhythm after-beat will tempt your feet and make you want to dance.

When the maestro and his roll-licking tunesmiths pause to re-inflate themselves, the Royal Troubadors will provide the meter for the gay dancers.

That jolly old soul, Santa Claus will be there also, complete with one over-sized stomach and one set of luxuriant fireproof whiskers. All those despicable infidels that don't believe in the merry old gift-giver are challenged to bring their in-focus eyes to the affair and see for themselves.

When the dancers have quenched their thirst for good music in Lou's flowing rhythms, they may adjourn to the adjacent Towers Club to quench any other thirsts they may have at the moment.

(Continued on Page Eight)

THIS WEEK AT IIT

TUESDAY

Baseball Meeting, Student Union Office. Basketball, North Central, Armory 4:15 P.M.

Accordion Orchestra, U 2W, 5:00-6:00 P.M.

Snackeater Club, East dining room, 7:30-10:00 P.M.

WEDNESDAY

Chemistry Lecture, East dining room, 9:00 A.M.

THURSDAY

Christmas Concert, Auditorium (Armour), 10:00 A.M.

Delta Lambda Xi, East dining room, 6:00-10:00 P.M.

Examinations at Lewis.

FRIDAY

Delta Lambda Xi, East dining room, 10:00 A.M.

Alumni Meeting, U2W, 7:00-9:00 P.M.

Examinations at Lewis.

SENIOR DANCE at the DRAKE HOTEL.

TECHNOLOGY NEWS

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DEC. 17, 1940

Chapin Hall—

Overcrowded corridors and blocked doorways have become commonplace in Chapin Hall, but in the last few weeks there has arisen a new hinderance to Institute activities in that building. Objectors to the terrific stench found almost daily in the halls and classrooms have traced the trouble to its source—the new experimental chemistry laboratories on the third floor. Students certainly do not begrudge space to our aspiring chemists, but they do object to being guinea pigs in a large scale test of noxious gases.

We believe that a quick solution of this exceedingly disagreeable annoyance would be discovered upon installation of proper exhaust fans in the offending laboratories. We urge their immediate installation on behalf of many student and faculty complainants.

Semester System—

An announcement by the administration recently that the Lewis division would adopt the semester system next year, has been met by many protests from the members of the student body. Students are raising their voices in complaint; heretofore timid students are speaking up; students who have been working, as well as going to school, are now uncertain of their future plans. This has now become manifest in the form of a petition which is now being circulated among the juniors who feel that they are perhaps the most immediately concerned by the change.

On a campus where a large percentage of the students are from out of town, the semester plan of schooling may be well and good, but in a school where 85% of the students are employed in their non-class hours, the plan can not, and

Student Contest For New Sticker And Emblem Design

Students of Illinois Institute of Technology will be given the opportunity to design a new school emblem for use on windows, briefcases, etc., according to an announcement last week by the Managing Board of the *Technology News*. The new design may be somewhat similar to the "Techawk" sticker formerly used at Armour but will incorporate the name and location of the new Institute.

In order to eliminate future confusion of Illinois Tech with schools of similar names, a group of prominent students decided last week that the designation of the Illinois Tech campus as "TECHNOLOGY CENTER" would be a desirable part of the new emblem.

As minimum requirements, the design should include the school colors (Scarlet and Grey), the name "Illinois Tech" and the term "TECHNOLOGY CENTER" (this should be given preference over the other letters). Entries must be 16 square inches in area or less. With these exceptions the design will be left to the individual.

All designs submitted are to be in colors and are to be adaptable to ordinary reproducing methods. All entries must be in the hands of George Dickel (Arx), Fred De Money (Armour) or Lillian Snodgrass (Lewis) by Monday, January 6. Any further information can be obtained from these people. The design selected for production and distribution to students will bring a cash award to the student submitting it.



will not, be met with a great deal of enthusiasm.

We all know that the semester plan is perhaps the most common among the colleges of the country; however, the tendency has been in recent years to change from the semester plan to that of the quarter. There surely must have been some basis for such a change, and we believe that the merits of the quarter system should not go unnoticed. Under the quarter system the average load of a student is three courses a quarter. He attends every class five days a week, and at the end of twelve weeks he enters new classes with new instructors.

Concentrated study of subject matter is advocated by many progressive educators. On the semester system a student often carries five or six subjects at a time. Thus a question arises, "can a student master five subjects over an extended period of time as well as the student who carries only three courses for twelve weeks?" For some students it is a great deal easier to concentrate on three courses than five, to say nothing of the fact that you can change your professors before you become thoroughly tired of them.

The change from the quarter to the semester plan will create quite a problem for the student who has paid his expenses by either working in the morning before he attends classes or in the afternoon or evening. We all know that it is practically impossible for a working student to carry a full program on the semester plan and still remain in school.

This leads us directly to the crux of the whole situation. When the Lewis Institute of Arts and Sciences adopts the semester plan, what will happen? Either the students who have worked and attended school simultaneously will have to quit their jobs or drop out of school. Naturally this will lead to a situation which is the direct opposite of what for which we had hoped the new Institute was working, that of a Liberal Arts and Sciences division with a smaller enrollment.

The greatest objection to the change, however, is that in translating the credits from quarter hours to semester hours several hours credit may be lost. This has been the basis of the agitation among the juniors because they are the ones who will suffer most through the change.

It is our hope that if the administration did not consider the student in their decision, that they will recognize the problems which it presents.

L. S.

President Heald Announces Defense Training Classes To Be Opened At Armour

President Henry T. Heald recently announced that Illinois Institute of Technology is adding a special national defense training program to its well-rounded curriculum. This innovation is in keeping with the current campaign of preparedness and is a concrete, living example of the patriotism and Americanism which can be found on both the south and west side campuses.

New Subjects

President Heald revealed that tentative plans for the courses have already been submitted to the War Department in Washington for approval. It is expected that official confirmation will enable the new system to begin functioning about January 6 of the coming year. The new subjects will include drafting, time and motion study, tool design, inspection of materials, and similar studies. Mr. Heald smilingly added that even a course in the construction of bomb-proof structures has been submitted to Washington officials, but he has no idea as to whether or not it will be approved.

The courses are open to everyone and will not require the enrollees to dig into their pockets for anything greater than the cost of text books and other supplies.

No College Credit

The classes are under the direction of Professor Finnegan of the department of fire protection engineering. Notices giving full particulars to interested and qualified men will be posted at both campuses in the near future. Each class will probably meet about three evenings per week so as to avoid interference with the regular daytime jobs of the students. Naturally no college credit will be given the students when they complete the courses which last about twenty weeks (one semester) because the work is highly specialized and does not approach a general engineering education in scope nor in magnitude.

As all students at Illinois Tech well know, the members of the faculty are working at top capacity with even the present curriculum, so it has been decided to hire instructors directly from industry for the defense program. These men can feel proud that they are doing their part for national safety.

Skilled Engineers Needed

Although these courses are intended to supply hungry national defense industries with food in the form of many skilled workers, President Heald emphasized that the regular engineering curriculum is even more vital. Thus, he urges all engineering students to continue with their studies, if possible, because it is the firm conviction of leading American educators that engineering schools can best aid the nation by continuing to supply highly educated men with complete engineering education rather than with the highly specialized knowledge provided by the new program. Mr. Heald especially believes that any engineering student who intends to exchange his slide rule for an army rifle is definitely not con-

sidering the best interests of his nation because he would be infinitely more valuable to America as a skilled engineer than as Private Jones, number three, rear rank in an infantry squad.

With the appropriation of \$9,000,000 to be used by technical colleges for training in national defense, action has now been taken to make use of the money throughout this country. The object of this appropriation is to provide courses designed to meet the shortage of engineers with specialized training in fields essential to the national defense. With this in mind, questionnaires were submitted to the leading industries for defense, to find out what training would be needed for an engineer to aid in this program. Among the most important things needed are men trained in metallurgy and tool and die making.

Among the subjects to be offered in this program will be courses covering machine designs, marine engineering, materials inspection and testing naval architecture, production engineering, production supervision, and tool engineering.

For administration purposes under the plan now being organized, the country will be divided into different areas. The Chicago area will include Illinois, part of Indiana, and part of Wisconsin. Since Illinois Institute of Technology is the largest technical school in the district, it is likely that it will receive a large share of the funds to be distributed in this area.

DEFENSE MEN ADDED TO IIT RESEARCH LAB

In line with its progressive policy of expansion, the Armour Research Foundation has recently hired a number of outstanding men to work in the various laboratories and departments. A total of five men have been added to the staff in the last several weeks.

When research activity begins in the newly-constructed diesel research building, one of the chief workers will be Norman C. Penfold, chief engineer of the Auto Gas Corporation, Republic Flow Meters Company. Mr. Penfold is a graduate of Armour Institute of Technology. Doing important work in metallurgy will be a graduate of the University and Technical Academy at Zurich, Switzerland, and the Technical Academy, Germany—Dr. George H. Zirker. Before coming to the Armour Research Foundation, Mr. Zirker was a metallurgist for Carnegie Illinois Steel Corporation at Johnstown, Pennsylvania.

The most important research project at Lewis Institute prior to the consolidation was ceramics. With the consolidation of the two schools, this work was combined with the non-metallic work being conducted at the Armour Research Foundation.

HAESLER'S DRUG STORE

DAMEN and MADISON STREETS

Fountain Service, Lunch,
Homemade Ice Cream—Double-Rich
Fresh Fruit Flavors At All Times

Lavish Setting, Novel Bids, Make Up Soph Dance

Attention all hermits! If the Senior Informal has not induced you to dismiss all your vows of celibacy, the Sophomore Snow Ball should give you sufficient reasons to lay aside all your ideas of reclusion.

In the lavish setting of the Empire room of the Belmont Hotel, where even Romeo's and Juliet's "dream of delights" could be fulfilled, this first Sophomore Informal of Illinois Tech will be held. The date, January 24, 1941, has been chosen. This will give the students an excellent chance to relax before those rugged final exams.

Due to the efficient work of the sophomore social committee, "Big Pete" Peterson and little Eileen Robinson, chairman and co-chairman, respectively, have been able to present their novel snow-ball bid for \$1.50.

An orchestra has not yet been selected but, with the capable Lewis representatives, Arns, Knirsch, Marzullo, Nowak, Pellerino, Taglieri and the equally capable Careron, Croon, Gow, Guetzow, Hawrysh and Mainhold as Armour representatives of the social committee, the music will probably be supplied by the smoothest rhythm organization of Chicago.

So all you boys and girls who starve yourselves on hungrily gathered crumbs of knowledge come to the Snow Ball and drink from the cup of friendship.

Lewis Class Of '41 In Full Swing

Committees for the Lewis senior class, as announced by Jack Greener, president, are as follows: photography, Lillian Snodgrass, chairman; jewelry, Kenneth Calhoun, chairman, Louis De Krauze and Alda Kairis; commencement, Charles Reinhardt, chairman, and Lloyd Seastrom; announcements, Jane Golet, chairman, and Ruth Sprague; cap and gown, Jeannette MacLuckie, chairman, and Allen Falkman; prom, Miriam Walker, chairman, Florence Adler, Charles Reinhardt, Bernie Silvers and Tom Cafcas—John Ferraro, *ex officio*.

Keys and rings are now available for inspection in the Lewis lobby. Orders will be taken during second period by Alda Karis and from 2 to 3 by Louis De-Krauze. Both Alda and Louis may be found in the second floor lobby during the periods mentioned.

Night school students may place orders with John Ferraro in the chem store room on the fifth floor.

Xmas Music—

(Continued from page one)

Meditation Coates
Blossom Time Romberg

New Alma Mater

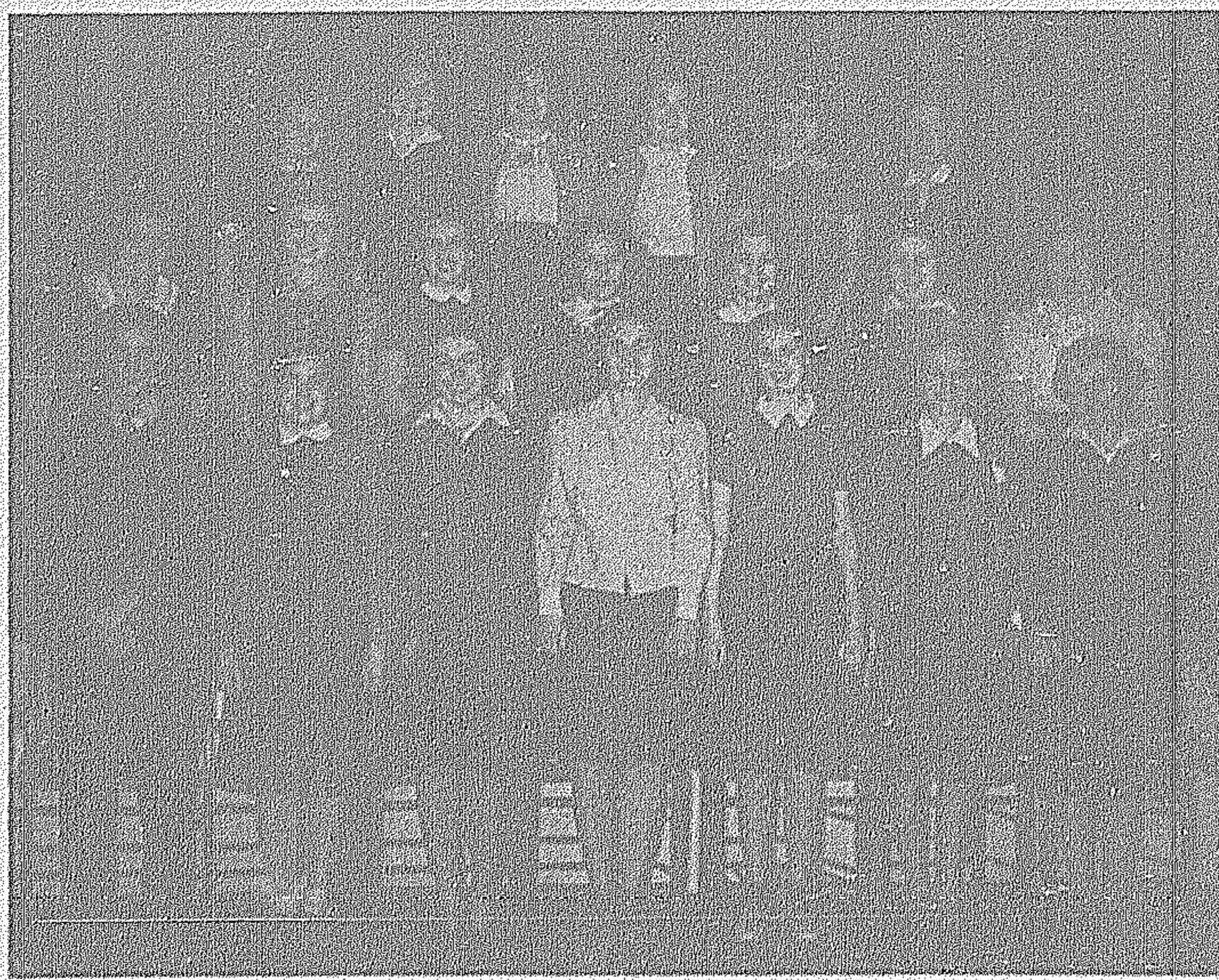
As a special feature, the combined Glee Club and Orchestra will present the new alma mater of Illinois Institute of Technology. The words of the alma mater follows:

To thee our Alma Mater dear with voices clear and strong,

We pledge our faith and loyalty and praise thy name in song. We'll ne'er forget the friendships made within thy hallowed halls;

More glory—honor, thy reward as long as duty calls.

LEWIS GLEE CLUB



The Lewis Glee Club and accompanist were the featured entertainers at the Christmas Concert given last Wednesday in the Lewis Auditorium.

By Paul Leopold, Staff Photographer

Hayakawa To Teach New Public Speech Course Next Term

Dr. S. I. Hayakawa, instructor in English at the Armour College of Engineering is to present a new course in public speaking next semester. The course will include a study of the pronunciation of American English, phonographic recordings of the students' voices to study faults in their speech and a new approach to grammar.

Special attention will be paid to the peculiarities of the Chicago dialect. The course will begin with a study of the pronunciation of American English. Students will be given training in phonetics sufficient to enable them to recognize the respects in which local vulgates differ from standard American. No attempt will be made to impose artificialities and effections of accent. Phonographic recordings of the students' own voices will be used to enable them to study their speech and to remedy faults.

Improve Students' Speech

A fresh approach to problems of grammar, "correctness," and usage will be offered through the study from a modern linguistic point of view of American English. The purpose of this will be to rid the student of self-consciousness about speaking "American." Among college students, more errors in speech are made as the result of self-consciousness than as the result of ignorance.

Study Practical Problems

After this preparation in pronunciation and usage in American English, which will take about half the semester, exercises will be given in the oral presentation of facts, arguments, opinions and plans.

Debate, which is of form of verbal combat, will not be practiced. In its place, the class will study such practical problems as those of testifying before commissions and boards, presenting plans before directors and conducting committees of inquiry where the end sought is not victory in combat, but agreement for the sake of arriving at practical decisions. Such practice, it is believed, is better suited to the needs of technological men than the old fashioned training in oratory, exhortation and verbal tussling.

Illinois Tech is not, after all, a school for the training of lawyers or preachers, but a school for the training of men who will use public-speaking chiefly for the purpose of arriving at practical agreements.

Prof. Louis J. Haga To Talk On Modern Methods In Foundry

Professor L. J. Haga of the Armour College of Engineering will lecture on *Metallography of Cast Metals* on January 6, in the Peoples' Gas Building Auditorium. This lecture will open the foundry lecture course sponsored by the Chicago chapter of the American Foundry Association. Other lectures on steel and gray iron will follow every Monday evening at 7:15 for nine consecutive weeks. Door prizes of books on related subjects will be given at each lecture.

Engineering students will benefit by this course in modern foundry methods. Since accommodations for the course are limited to 300, students will find it to their advantage to enroll promptly. The fee for the lecture series is \$1.00 for members of the A.F.A. and \$2.00 for non-members.

JINX DANCE BIG SUCCESS; FIRST OF NEW SERIES

Initiating the season with the Superstition Dance last Friday the thirteenth, the Dance Club is on its way to a most successful season. The strains of the Knights of Armour, coming to the dancers through an atmosphere of eeriness, were thoroughly enjoyed by the dancers.

One of the features of the dance was the novel playing and singing of Charles M. Faris, who was dressed appropriately for the occasion. During the intermission, recorded music was played.

Numerous other socials will be held during the year and a closed social, open only to members of the Dance Club, will climax the year's activities. Membership to the club is still available. To become a member, merely attend the instruction sessions, held each Wednesday evening, and pay the membership fee of 25 cents. From now on, only members will be allowed to attend the instruction periods, which will stress the steps that the members desire to learn.

The year book staff is anxious to purchase informal pictures of Institute activities for use in lay out work. Pictures may be submitted to Lionel Naum for approval at the Cycle office.

Cox Speaks On Flight Program For U.S. Pilots

Plans of aeronautical expansion were presented by Mr. Charles E. Cox, superintendent of the Civil Pilot Training Program in the Chicago district, at an Armour College assembly last Thursday, Dec. 12. Mr. Cox was presented to the students by Professor M. E. Wells, director of the Civil Aeronautics Administration at Illinois Institute of Technology.

With the presentation of a fable concerning the superiority a nation would acquire, if it possessed a million airplanes, Mr. Cox introduced the C.P.T. program. The aim of the program will be to promote more civil aviation among the American people. It was stated that a nation truly air-minded would undoubtedly be much superior in war.

The program outlined by Mr. Cox was to encourage college students to become more air-minded. The government is promoting more aeronautical courses in colleges. The government is also promoting the Civilian Pilot Training Program which is open to men between the ages of 19 and 26. One of the courses offered is the private course or preliminary course. The training consists of a 72-hour ground course and a 35 to 45-hours flight course.

Quota Enlarged; G.E. Hires Eight Armour Seniors

One of the most unusual pieces of news to come from the placement office is that eight Illinois Institute seniors were chosen for employment by General Electric Co. as a result of a series of interviews recently completed.

Each year the General Electric Co. selects five hundred outstanding engineering school graduates to enter their organization. Armour has almost always been well represented in this group of men. This year the qualifications of Illinois Institute students have been fully recognized by the fact that the quota has been increased to eight men.

Selections are not based on scholarship alone, but also for activities, personality and experience. The men selected were Carl Anderson, Ben Cole, Donald Crego, Henry Dryer, Charles Durkee, Raymond Glass, Louis Maze and Robert Peterson.

These men will have the opportunity to train themselves in one of the largest electrical manufacturing companies in the country. The two year training period into which these students are going serves to orientate new men into the vast General Electric system, and to coordinate theoretical knowledge with the practical.

Research Men Look To Mexico For New Era Of Science; Facilities Few

With Illinois Institute assuming outstanding international roles in scientific and engineering fields, the questions of exchange research and major engineering problems become of prime importance. In a conflict which daily increases in scope, Europe backed by Canada, bids fair to stifle pure, unhampered abstract research and engineering. Scientists of North America, and more particularly those at Illinois Institute, focus their eyes on one country for the development of research, Mexico. By a twist of fate the land of the Aztec and peon—once the outlook of the Old World may now be the outlook of the New World in a new conquest—science.

Study Cosmic Rays

Responding nobly to the situation, Mexico is undergoing a rejuvenation. At the National University the young and brilliant professor Alfredo Banosz Jr., Guggenheim fellowship holder for three years is gradually reorienting the status of scholarship. At present, under his guidance, Cosmic Ray study is the leading research project at the University. Though hampered by the absence of technical literature, especially periodicals, which are pitifully lacking, the university men are working feverishly with the promise of greater financial backing.

To foster the development of other problems Dr. Banosz together with Dr. Lopez invited three outstanding men from the U.S. as lecturers and consultants.

Oldenburger Lectures

From Illinois Institute went Dr. Rufus Oldenburger to deliver a series of five lectures. Presented in Spanish the lectures brought to the University general concepts of modern algebraic techniques and the presentation of classic problems in matrix formation. "Theory of Polynomials of Higher Degree," title of the series, was immediately published in the official scientific publication, "Ingenieria."

To meet the problems inherent with the geography of Mexico, Professor Terzaghi of Harvard—\$100 a day Chicago subway expert, and founder of "Soil Mechanics," was invited. His experience was invaluable in dealing with the silt bed on which Mexico City is built. Engineers find it impossible to

(Continued on page eight)

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Students Hear Talk Given By Reverend Roupp

"What is Progress?" was the subject discussed by Rev. H. W. Roupp, pastor of Central Church, at the assembly in the Auditorium on December 13th at 10:00 a.m. Prior to introducing the guest speaker, President Heald spoke briefly of the national defense training program and its relationship to technical college students.

Graduate of Boston

Mr. Roupp, who about a year ago became pastor of Central Church in Orchestra Hall, entered Carnegie Institute to study civil engineering. After studying engineering only a short time, he went to Ohio Wesleyan College. On graduating from there, he studied theology at Boston University and later became professor of preaching at that institution.

West of Progress

In answering his question, "What is Progress?" Mr. Roupp defined progress from the scientific and economic viewpoints. Considering the scientific, the world is greatly improved over a century ago; and from the standpoint of economics, is better acquainted

with the principles of business than ever before. Dr. Roupp asked, "Does all this mean progress?" The real test of progress in any field, be it scientific, economic, social, or religious, is how much it enriches human personality. Only as man knows love for God and his fellow man and conducts himself in this spirit can he claim to have made progress, regardless of how much he advances in science and economy."

Wanted: Lyrics For Pep Song; Submit Them

Ladies and gentlemen of IIT! Here is an opportunity that has long been desired! Ray Noble has promised to "turn in the best melody possible" for the school song, and "If you can produce a suitable lyric for me to work on, I am ready to go ahead."

Here is a chance for the student who writes a potent set of lyrics to inscribe his name in the annals of IIT history.

The song committee will act as judges of the submitted lyrics. Original lyrics are to be submitted to Bud Carlson on the Lewis campus.

Sixteen Lusty Zephyrs Plus Mighty "Breese" Equals A Senior Dance Tornado This Friday

(Continued from page one)

Parking troubles approach zero as an upper limit—to be scientific—as your creaky chariot is ensconced in either the Drake's spacious garage or the parking lot across the street from the Palmolive Tower.

Bids may be gotten at the cloak-

room, in the bookstore, or from the countless, predatory seniors. Only because this paper is a stickler for details is the teeny-weeny admission price of \$1.75 even mentioned. Your sales resistance should be worn to a nub by this or any listing of the facts of this affair so, even if you have to get a parole, be there!



Lou Breese and his sixteen piece "Breezy Rhythm" band who will play for the Senior Informal this Friday evening. The "C.P." on the music racks stand for the Chez Paree, where Lou is scheduled to open on December 23.

NEWS DINNERS—Shacks In Ogden—

(continued from page one)

Technology News takes this opportunity to extend its wholehearted appreciation to each and every one who has worked this semester toward creating a fine college newspaper. The impossibility of giving awards to everyone, will it is hoped, be compensated at least partly by its annual sumptuous banquet on January 23, and subsequent other dinner meetings next year. Here's hoping, too, that the sincere satisfaction of a job well done is worth more than anything the managing board could do or say.

With jokes the only requirement for admission, the feature staff dined last Tuesday evening in the East Dining Room of the Union. Art Minwegen and Pat Arns, the co-feature editors, conducted the soiree. After instructing their charges as to the proper ways of handling their columns, Joe Aberer, managing editor, spoke. He discussed the minor improvements he thought could be made in feature material. With official business out of the way, the columnists sat back to enjoy themselves. Each person present was called upon to tell an anecdote, be it good, bad, or indifferent.

(Continued from page one)
turn is due to the excessive tropic temperatures.

One of the two shacks evident on the field houses a coal stove. A water line from the field house well supplies water to the stove jackets which is then converted to steam and sent to the radiators which stand in the second shack. This second shack is roughly insulated.

The drums (containing gasoline) are in this second shack, during the test. The temperature in the second shack was about 150° F., a temperature prevalent in the tropic sun. A ditch has been dug around shack number two so as to prevent the gasoline from flowing over the field in the event the gaskets do give way.

The test is being conducted by Drs. Godwin and Heeren of the research staff. When asked why Ogden field had been chosen as the site of the experiment, Dr. Heeren said, "fire laws prohibit the use or storage of this type of gasoline indoors, hence we chose the nearest available outdoor site." He gave his assurance that the tests would be completed as soon as possible so as to make the field available to students desiring to use it.

A.I.E.E. Hears Talk On Safety Practice By William Eldredge

So strong was a bottle of wine, discussed by William S. Eldredge at the November 6 meeting of the A.I.E.E., that it knocked a workman 15 feet and dislocated four of his teeth. The man had hidden the bottle in a little cabinet in a powerhouse in which Mr. Eldredge was chief test engineer; the cabinet turned out to be a 12,000 volt fuse box, and the "kick" came when the man removed the bottle, took a drink and touched the fuse with his elbow.

As chief test engineer and a personnel director for Commonwealth Edison, William Eldredge had 30 years of experience in the field of electrical engineering from which to draw for his talk on safety before the undergraduate "juicer" group.

All the clothing except the shirt collar and shoes was torn off a workman in one of the many accidents related by the safety man. A set screw had caught the unfortunate's raiment. Improved design has reduced many of these mishaps due to faulty construction, but the human element still intervenes.

Be Blameless

Other things that often causes accidents are misunderstandings between co-workers, unfamiliar equipment, unforeseen occurrences and mental lapses. Many of the near-fatal or fatal happenings have a rather weird aspect, as if they were pre-ordained. Miraculous escapes also received some attention.

"Be blameless and harmless" was a summation of the talk by Mr. Eldredge. He explained this as a good rule for keeping engineers, in particular, and everyone, in general healthy.

A talk on "Industrial Applications of an Engineering Education" by Mr. William H. Yenni will be the principal feature of the next A.I.E.E. meeting on Friday, December 20 in room U2W, at 10:00 a.m. Mr. Yenni is a graduate of the University of Michigan, a member of Tau Beta Pi and the A.I.E.E. and a former professor of electrical engineering at Lewis Institute. He is now chief engineer for a manufacturer of automobile engine-testing equipment.

The lecture will be of great interest not only to the electricals but to all engineering students.

Busy Season For Home Ecs—Making Orphans Happy

Zero weather plus a heatless building made for a "cold reception" at Elam Mills on December 5, when the 101 foods class made a tour of the company. In spite of red noses and numb toes, the girls enjoyed watching the processing of wheat from the raw kernel to the finished flour. Because of the special method of milling, this flour retains all the food value, vitamins, and minerals necessary for proper growth.

Home economics practice teachers were hostesses at a tea given December 3. Among the guests were Dean C. L. Clarke, Dr. Sophie A. Theilgaard, Dr. Ernest T. Walker, and the teachers and club leaders of the settlement houses and schools in which the students have taught. A return invitation has been given by the teachers for a tea at Flower Technical High School last Wednesday.

In the home economics office is a growing pile of dolls, horses, dogs, books, games, and trinkets waiting to go into big red stockings on Christmas eve. These toys are part of the M.A.O.H. (Make An Orphan Happy) collection. Students are invited to come to the home economics office and see the collection.

JOHNSON, LEWIS' ENGINEER RETIRES

Henry A. Johnson, chief engineer of the Lewis building retired from active service the first of November. It was with regret that we see him leave, for Mr. Johnson came to Lewis one year after the school opened, as an assistant to the chief engineer. During the years he has been at the school, he has seen it grow in curriculum, students, and activity. In 1906, he was promoted to the post of chief engineer and he has held that post ever since.

Walter J. Parduhn, the new head engineer, comes to us from the post of engineer in charge of maintenance at a large cleaning and dyeing plant — a post he had held for eight years.

S. R. O.!

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Mexico—

(Continued from page three)

strike bed rock and are hard put to erect sizeable structures on the silt "fill" because of the massive lake which was once the scene of Mexico City. The problem assumed amusing proportions when the Belles Artes, magnificent palace of Fine Arts settled almost ten feet. Mexicans daily expect to view only the gold dome of the palace protruding above the ground.

In the field of applied mathematics and tensor analysis, Professor D. J. Struik from M. I. T. was brought, to lay before the students and scholars the basic methods peculiar to the general field of engineering.

With the acquisition of greater library facilities, more exchange scholarships and the importation of further outstanding lectures, Mexico looks ahead to an era of flourishing research.

Sphinx—

(Continued from page one)

Sphinx, sponsor of the affair, as an additional feature to the novel evening's entertainment — will conduct a dance immediately following the show. The "Knights of Armour," those smooth-styled gentlemen of swing will provide the music for the "dancing minded." Prices for the evening have been set \$.50 a person. Tickets are now on sale and may be obtained from the members and pledges of Sphinx.

January 10, is the deadline for the taking of senior photographs. All seniors are urged to make appointments to have these photographs taken during the Christmas holidays, as the time will be very short after school starts next year. Appointment cards should be obtained from members of the Photography committee, and appointments are to be made at the Marshall Studio. The committeemen are:
Arch. L. Blumberg, Ch.E. A. Sanowskis, Ch.E. G. Lykowski, E.E. C. Malleris, F.P.E. W. Speth, M.E. E. Colant.

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